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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/695,661	10/28/2003	Gerald Czygan	117163.00094	4060
21324 7	7590 11/06/2006		EXAMINER	
HAHN LOESER & PARKS, LLP			REIDEL, JESSICA L	
One GOJO Plaza Suite 300		ART UNIT	PAPER NUMBER	
AKRON, OH 44311-1076			3766	
			DATE MAILED: 11/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/695,661	CZYGAN, GERALD				
Office Action Summary	Examiner	Art Unit				
	Jessica L. Reidel	3766				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATIO (6(a). In no event, however, may a reply be till (ii) apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 Au	iaust 2006.					
,— · · · · · · · · · · · · · · · · · · ·	action is non-final.					
, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
·— : ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>See Continuation Sheet</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1, 3-7, 23, 46, 50-51, 55-56, 60-61</u> is/are rejected.						
7)⊠ Claim(s) <u>8-17, 28, 30, 32, 34-35, 38-40, 42-43, 45, 47, 49, 52, 54, 57, 59, 62 and 64</u> is/are objected to						
8) Claim(s) are subject to restriction and/or						
		•				
Application Papers		•				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 August 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action of form PTO-152.				
Priority under 35 U.S.C. § 119		·				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:	••				

Continuation of Disposition of Claims: Claims pending in the application are 1,3-17,23,28,30,32,34,35,38-40,42,43,45-47,49-52,54-57,59-62 and 64.

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DETAILED ACTION

1. Acknowledgement is made of Applicant's Amendment, which was received by the Office on August 17, 2006. Claims 2, 18-22, 24-27, 29, 31, 33, 36-37, 41, 44, 48, 53, 58 and 63 have been cancelled. Claims 1, 3-17, 23, 28, 30, 32, 34-35, 38-40, 42-43, 45-47, 49-52, 54-57, 59-62 and 64 are pending.

Claim Objections

- 2. Claims 6, 7 and 23 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 1 defines that the means for monitoring stimulation outcome is connected so as to detect "a drop in voltage over time" or "a rise in a short-circuit current over time". Claims 6, 7 and 23 define that the means for monitoring stimulation outcome is connected so as to detect "a current strength of the short-circuit current over time" or "a level of the voltage over time". The Examiner considers a detected "drop in voltage over time" (Claim 1) and detected "level of the voltage over time" (Claims 6, 7 and 23) to be the same detections. The Examiner considers a detected "rise in a short-circuit current over time" (Claims 1) and a detected "current strength of the short-circuit current over time" (Claims 6, 7 and 23) to be the same detections.
- 3. Claim 1 is objected to because of the following informalities: there appears to be inadvertent typographical errors at the first two lines of the claim and at line 27 of the claim.

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5.

The Examiner suggests changing the first two lines from "A device for electrostimulation of

body tissue through a stimulation electrode, comprising" to "A device for delivering electrical

stimulation pulses to body tissue through a stimulation electrode" instead and the Examiner

makes reference to lines 7-8 of Claims 1. The Examiner also suggests omitting the phrase "after

delivery of the stimulation pulse" from line 27 of the claim since thus was previously defined at

lines 24-25 of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-7, 23, 46 and 50-51 are rejected under 35 U.S.C. 102(b) as being anticipated

by Prutchi et al. (U.S. 6,141,585) (herein Prutchi). As to Claim 1, Prutchi discloses a cardiac

stimulator, read as a device 400 for delivering electrical stimulation pulses to body tissue through

stimulation electrode 520 (see Prutchi Abstract, Figs. 4-5 and column 7, lines 15-32) comprising

a tank capacitor, read as energy storage means C_T for providing electrical stimulation energy to

the stimulation electrode 520 from a voltage source, read as an energy source V_i. The device 400

of Prutchi further comprises a charging switch, read as a first switch SW1 with which the energy

storage means C_T is switchably connected to the energy source V_i for charging the energy

storage means C_T (see Prutchi column 9, lines 20-53). The device 400 of Prutchi further

comprises an electrode connection for connecting the stimulation electrode 520 to the device for

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delivering electrical stimulation pulses to body tissue and a pacing switch, read as a second switch SW2 with which the energy storage means C_T is switchably connected to the electrode connection for delivery of a stimulation pulse (see Prutchi column 9, lines 53-62). The device 400 of Prutchi further comprises an impedance circuit, read as a means for monitoring stimulation outcome 466 and a discharge switch, read as a short-circuit switch SW3 with which the electrode connection, after delivery of the stimulation pulse is switchably connected to a ground potential (see Prutchi Fig. 5) such that, in the case of a connected and implanted electrode 520 a capacitance can be discharged by way of the body tissue, where the capacitance includes at least one Helmholtz capacitance C_L produced on the surface of the stimulation electrode in conjunction with surrounding body fluid or body tissue. The device 400 of Prutchi further comprises a processor, read as a control unit 470 which is connected to at least the first switch SW1, the second switch SW2 and the short-circuit switch SW3 for switching the respective switches and which is adapted to separate the electrode connection from the energy storage means C_T after delivery of the stimulation pulse and at least indirectly connect the electrode connection to the ground potential. Prutchi discloses that the means for monitoring stimulation outcome 466, at least after delivery of the stimulation pulse, is connected to the electrode connection and is adapted to detect a drop in voltage over time at the Helmholtz capacitance CL or a rise in short circuit current over time at the capacitance, both representative of a characteristic drop in myocardium impedance of the body tissue (see Prutchi Figs. 3A-3B, column 3, lines 5-67, columns 4-5, column 6, lines 1-52, column 9, lines 20-67 and columns 10-12).

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6. As to Claims 3-7 and 23, in addition to the above, Prutchi further discloses that the

capacitance also comprises a DC blocking capacitor, read as a coupling capacitor C_B that is

connected between the electrode connection and the ground potential when the short-circuit

switch SW# is closed. Prutchi further discloses that the coupling capacitor CB is arranged

between the energy storage means C_T and the electrode connection in such a way that the

coupling capacitor C_B is connected in series with the energy storage means C_T when the second

switch SW2 is closed (see Prutchi Fig. 5).

7. As to Claim 46, Prutchi discloses that in unipolar electrode configurations, the ground

potential is formed by a housing of the device or a surface portion thereof (see Prutchi Fig. 3B

and column 3, lines 5-65).

8. As to Claims 50 and 51, the energy storage means is a reservoir tank capacitor C_T as

discussed above.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

10. Claims 55-56 and 60-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Prutchi. Prutchi discloses the claimed invention as discussed above except it is not specified that

the energy source V_i include a charge pump. It would have been obvious to one having ordinary

skill in the art at the time the invention was made to modify the device as taught by Prutchi, with

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a charge pump since it was known in the art that charge pumps are used to provide a means to multiply or otherwise step up a voltage provided by a typical battery to a reservoir capacitor for powering an implantable medical device such as a pacemaker.

Allowable Subject Matter

Claims 8-17, 28, 30, 32, 34-35, 38-40, 42-43, 45, 47, 49, 52, 54, 57, 59, 62 and 64 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jessica L. Reidel whose telephone number is (571) 272-2129.

The examiner can normally be reached on Mon-Thurs 8:00-5:30, every other Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Pezzuto can be reached on (571) 272-6996. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jessica L. Reidel

Examiner

Art Unit 3766

Robert E. Pezzuto

Supervisory Patent Examiner

Art Unit 3766